

~~CLAIMS~~  
WE CLAIM AS OUR INVENTION:

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1. Pacer housing (60) comprising a connector means adapted to receive a contact plug (110) on the proximal end of a lead (15) with an electrode located on the distal end of said lead, said housing being made of metal, said connector means comprising a tubular member having two ends and being located inside said housing, a first end (22, 122) of said tubular member being welded or bonded to an opening in a wall of said housing, the second end (23, 123) of said tubular member being closed, characterized in that said tubular member comprises a tube (21, 121) made of a metal being weldable or bondable to said metal housing, said tube being structurally intact along its entire length, all interior means (27, 127, 28, 128, 50, 150, 51, 151) in said tube for contacting the contact surfaces (111, 118) on said plug being located within the enclosure formed by said tube, said tube further containing at least one insulating plug (26, 126) being coaxial with said tube and holding said interior means for contacting said contact surfaces on said plug.

2. Pacer housing according to claim 1, characterized in that said second end (23, 123) is closed by means of said insulating plug (26, 126) fitting into said metal tube, said plug being made of a ceramic material and being soldered or bonded to said tube.

3. Pacer housing according to claim 2, characterized in that at least one contact means for contact with the interior of the housing is located on the outside of a metallic tubular sleeve (27) embedded in said ceramic plug (26), said sleeve extending out from said ceramic plug so as to provide an exterior contact surface for contacting the interior of said housing, the inside of the opposite end of said sleeve being exposed so as to provide an inner contact surface (31) for contacting said contact plug.

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4. Pacer housing according to any one of claims 2 or 3, characterized in that a metallic plug (28) is embedded in said ceramic plug, the outer end of said plug (28) extending out from said ceramic plug (26) so as to provide an exterior contact surface for contacting the interior of said housing.

5. Pacer housing according to claim 4, characterized in that a part of the opposite, inner end of said metallic plug (28) is provided with an inner bore providing an interior contact surface (30) for contacting said contact plug.

6. Pacer housing according to claim 1, characterized in that said metal tube (121) is provided with one or several lateral contact openings (124, 125), contact ring surfaces (127, 128) for establishing the contact to the interior of said housing being located in said opening(s) (124, 125), said contact surfaces being electrically connected to said means (50, 51) for contacting said contact surfaces (111, 118) on said plug (110).

7. Pacer housing according to claim 6, characterized in that said opening(s) (124, 125) are closed by means of said at least one insulating ceramic plug (126) fitting into said metal tube, said ceramic plug being soldered or bonded to said tube, said plug holding said contact means (127, 128) for contacting the interior of said housing.

8. Pacer housing according to claim 7, characterized in that said contact means comprise metal rings (127, 128) that are molded or bonded into the ceramic plug (126), the outside of said ceramic plug (126) being provided with openings (132, 133) corresponding to said lateral openings (124, 125) in said tube, thus giving access to said rings (127, 128) from the outside of said tube.

9. Pacer housing according to claim 7 or 8, characterized in that the central part of the inside of said metal rings (127, 128) is free from said ceramic, thus providing a

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peripheral groove (130, 131) at the inside of said rings (127, 128) giving access to said rings from the inside of said tube.